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RAW SEQUENCE LISTING

DATE: 01/28/2002

PATENT APPLICATION: US/09/994,185

TIME: 11:40:03

Input Set : N:\Crf3\RULE60\09994185.raw Output Set: N:\CRF3\01282002\1994185.raw

## SEQUENCE LISTING

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(1) GENERAL INFORMATION:
             (i) APPLICANT: White, Mark Leslie
      3
                             Carroll, Stephen Fitzhugh
      4
                            Ma, Jeremy Kam-kuen
      5
            (ii) TITLE OF INVENTION: METHOD FOR QUANTIFYING LBP IN BODY FLUIDS
      6
           (iii) NUMBER OF SEQUENCES: 4
      7
            (iv) CORRESPONDENCE ADDRESS:
      8
                  (A) ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
      9
                  (B) STREET: 6300 Sears Tower, 233 South Wacker Drive
     10
                  (C) CITY: Chicago
     11
                  (D) STATE: Illinois
                                                             ENTERED
     12
                  (E) COUNTRY: United States of America
     13
                  (F) ZIP: 60606-6402
     14
             (V) COMPUTER READABLE FORM:
     15
                  (A) MEDIUM TYPE: Floppy disk
     16
                  (B) COMPUTER: IBM PC compatible
     17
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     18
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
     19
            (vi) CURRENT APPLICATION DATA:
C--> 20
                  (A) APPLICATION NUMBER: US/09/994,185
C--> 21
                  (B) FILING DATE: 26-Nov-2001
     22
                  (C) CLASSIFICATION:
     23
           (vii) PRIOR APPLICATION DATA:
     24
                  (A) APPLICATION NUMBER: 09/286,153
     25
                  (B) FILING DATE:
     26
          (viii) ATTORNEY/AGENT INFORMATION:
     27
                  (A) NAME: Lin-Laures, Li-Hsien
     28
                  (B) REGISTRATION NUMBER: 33,547
     29
                  (C) REFERENCE/DOCKET NUMBER: 27129/33783
     30
            (ix) TELECOMMUNICATION INFORMATION:
     31
                  (A) TELEPHONE: 312/474-6300
     32
                  (B) TELEFAX: 312/474-0448
    33
                  (C) TELEX: 25-3856
        (2) INFORMATION FOR SEQ ID NO: 1:
     35
             (i) SEQUENCE CHARACTERISTICS:
    36
                  (A) LENGTH: 1443 base pairs
    37
                  (B) TYPE: nucleic acid
    38
                  (C) STRANDEDNESS: single
    39
                  (D) TOPOLOGY: linear
 -> 40
            (ii) MOLECULE TYPE: DNA
    41
            (ix) FEATURE:
    42
                  (A) NAME/KEY: CDS
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			(B) LOCATION: 11443															
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49						INFO					. 1.							
50		(xi)	SEQU	JENCE	E DES	SCRIE	LTOI	N: SI	SQ II	ONO:	T.	3 M 3	стс	OTT C	CCA	mmc	CTIC	48
51		ATG	GGG	GCC	TTG	GCC	AGA	GCC	CTG	Doo	Con	TIA	CIG	CTG	A 1 a	TOU	LOU	40
52			GLY	Ala	Leu	Ата		Ата	ьeu	Pro	ser		ьеu	Leu	ніа	ьeu	-10	
53		-25					-20	0.am	ama.	ООП	000	-15	acc	CCC	mmc	CTC		96
54		CTT	ACG	TCC	ACC	CCA	GAG	GCT	CTG	GGT	GCC	AAC	Doo	GGC	TIG	Un 1	712	90
55		Leu	Thr	Ser	Thr		GIu	Ата	Leu	GTA	_	ASI	PLO	Gly	ьeu 5	vaı	АІА	
56						- 5					1	000	030	CAC	-	CIO N	mmc	144
57		AGG	ATC	ACC	GAC	AAG	GGA	CTG	CAG	TAT	GCG	GCC	CAG	GAG	01	CIA	Tou	144
58		Arg			Asp	Lys	GTĀ	Leu		Tyr	Ата	Ата	GIII	Glu	- сту	ьeu	цец	
59				10					15			ama.		20	mma		CCC	192
60		GCT	CTG	CAG	AGT	GAG	CTG	CTC	AGG	ATC	ACG	CTG	CCT	GAC	Dha	Mb~	C1	192
61		Ala		Gln	Ser	Glu	Leu		Arg	тте	Thr	ьeu		Asp	Pne	1111	GIY	
62			25					30		aa#	222	000	35	CAC	mma	C A C	NCC.	240
63		GAC	TŢG	AGG	ATC	CCC	CAC	GTC	GGC	CGT	GGG	CGC	TAT	GAG	Dha	UAC	AGC	240
64		_	Leu	Arg	Ile	Pro	_	Val	GIĄ	Arg	GIY		туг	Glu	Pne	HIS	55 55	
65		40					45			amm	a. a	50	000	OTT C	7.00	OOT.		288
66		CTG	AAC	ATC	CAC	AGC	TGT	GAG	CTG	CTT	CAC	TCT	31-	CTG	AGG	Dma	Un 1	200
67		Leu	Asn	Ile	His		Cys	GIU	Leu	ьeu		ser	Ата	Leu	AIG	70	Val	
68						60				3 77.0	65	<b>a</b>	. шаа	maa	N m/C		CTTC	336
69		CCT	GGC	CAG	GGC	CTG	AGT	CTC	AGC	ATC	TCC	GAC	TCC	TCC	ATC	7 22	Mal.	330
70		Pro	GTA	GIn		Leu	ser	Leu	ser		ser	ASP	ser	Ser	85	AIG	Val	
71					75		a in a	000	330	80	mma.	mmc.	ארא	CITIA.		CCC	TCC	384
72		CAG	GGC	AGG	TGG	AAG	GTG.	CGC	AAG	Com	Dho	Dho	TAG	CTA	C1n	Clv	Sor	304
73		GIn	GTĀ		Trp	Lys	vaı	Arg		Ser	Pile	Pile	гуз	Leu 100	GIII	СТУ	361	
74				90	3 O.M	аша	330	000	95	NCC	y unun	TICC	СТС		CTC	CTC	ጥጥር	432
75	·													AAC				452
76		Pne	_	vaı	Ser	vaı	гаг		TIE	ser	116	261	115	Asn	Пеп	пси	пси	
77		222	105	GNG.	шаа	maa	CCC	110	CCC	אכא	C TITE	አ Cጥ		TCC	AGC	TGC	AGC	480
78		GGC	AGC	GAG	Com	Cor	C1 **	AGG	Dro	Thr	Va1	Thr	λla	Ser	Ser	Cvs	Ser	100
79			ser	GIU	Ser	ser		AIG	PIO	1111	Vai	130	ліц	DCI	DCI	Cys	135	
80		120	010	» ma	COM	CNC	125	CAC	CTC	CAC	አጥር		GGA	GAC	ጥጥር	GGG		528
81		AGT	GAC	ATC	310	ACC	Mal.	Clu	Val	Acn	Mot	Sar	Glv	Asp	T.eu	Glv	Trp	323
82		ser	Asp	тте	Ата		val	GIU	Val	АБР	145	Der	GLY	ДЭР	пси	150	119	
83		ori o	mma	330	ата	140	CAC.	אאר	CAC	א חיידי		TCC	ΔAG	TTC	CAG		СТА	576
84		CTG	TTG	AAC	CTC	Dho	THE	AAC	CAG	T10	Glu	Sar	Lvc	Phe	Gln	Lvs	Val	3,3
85		Leu	Leu-	ASII		PHE	птъ	ASII	GIII	160	GIU	Ser	цуз	1110	165	2,5	vul	
86		OTT C		700	155	y unun	TCC	CAA	λ ጥር		CAC	ΔαΔ	ፐርር	GTG		ፐርር	САТ	624
87		CTG	GAG	AGC	AGG	ATT	TGC	Cli	MC+	T1A	CAG	Luc	Ser	Val	Ser	Ser	Asn	024
88		ьeu	GIU		arg	тте	Cys	GIU	мес 175	тте	GTII	пуз	261	180	Der	Der	1101	
89		Om 5	anc.	170	шаст	CITIC	C A A	λCm		CCA	CTT	ልሮኦ	ΔСА	GAG	Δ ጥጥ	GAC	AGT	672
90		CTA	CAG	D~c	TAT	Ton	CAA	Thr	Leu	Dro	Val	Thr	Thr	Glu	Tle	Asn	Ser	V/2
91		ьeu	GTIJ	PLO	TAT	пeп	GIII	T 11T	п <del>с</del> и	FIO	٧ат	T 11T	T 11T	OIU	110			



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9	2		185					190					105					
9.	3	TTC			АТТ	GAT	ΤΑΤ			GTG	Gλλ	ccc	195	000	003		GCC	
9	1	Phe	Ala	Asp	Ile	Asp	Tvr	Ser	T.eu	Val	Clu	712	Dwo	3	GCA	ACA	GCC Ala	720
9	5	200		_			205	001	LCu	Val	GIU	210	PIO	Arg	Ата	Thr		
9	5	CAG	ATG	CTG	GAG	GTG		ጥጥጥ	AAG	сст	GAA	ATC	mmm	C a m	aam		215 CAC	
9	7	G1n	Met	Leu	Glu	Val	Met	Phe	T.vc	Glv	Clu	TIO	Dho	CAT	CGT	AAC	CAC	768
98	3					220		1110	цуз	GLY	225	TIE	Pne	HIS	Arg		His	
99	)	CGT	TCT	CCA	GTT		СТС	ריייי	CCT	GCA	CTC	አመሮ	N.C.C	Cmm	aam.	230	GAA	
10	0	Arc	7 Se	r Pro	o Val	L Th	r Tei	ı T.e.	ι Δ1 <i>ε</i>	OCA a λl:	a Ma.	AIG I Mod	AGC	CTT	CCT	GAG	GAA u Glu	816
10	1				235	 5		2 1101	1 1110	24(		r Me	L Se.	r rei			u Giu	
10	2	CAC	CAA	C AA			С ТАС	ը գրգող	r G <i>C</i> (	23. Δጥረ	י ייידרים	י כאיז	г пл	n ama	245	) 	CACG	
10	3	His	As:	n Lys	Met	. Va	l Tvi	r Phe	. ους 2 Δ1:	714	2 201	o Acr	I TA	r GTC	J TT(	J AA	n Thr	864
10	4			250	)		1-		255	, 110	2 261	. ASE	, тАл			e Ași	n Thr	
10	5	GCC	AG	CTC	GTI	TAT	CA3	GAG			י אידי	י כיייכ	י אאר	260	) 3. maa		CACA	
10	6	A1a	se:	r Leu	ı Val	. Tvi	His	Gli	ı Glı	ı Glu	, П. 17.17 1	· Cit	) AAC	Dha	TCC	. ATC	e Thr	912
10	7		265	5		- 1 -		270	)	. Оту	TÄT	. пес	275	: 1 PHE	s sei	. TT6	e Thr	
10	8	GAT	GA	ATO	ATA	CCG	CCT			י ממי	י אידיר	י ככז	275	י יאסר			TCC	
10	9	Asp	Glu	ı Met	. Ile	Pro	Pro	Asn	Ser	· Δen	Tle	Ara	LOU	ACC mb-	ACC	AAC	S Ser	960
11	0	280	)		•		285			11011	. 110	290	пeu	1 1111	1111	гу		
11	1	TTC	CG	CCC	TTC	GTC			TTA	GCC	AGG	290 ሮሞሮ	י י יידארי		1 330	' » m c	295 BAAC	1000
11	2	Phe	Arg	Pro	Phe	Val	Pro	Ara	Len	Ala	Ara	T.Δ11	TAC.	Dro	AAC	ATC	: AAC : Asn	1008
11	3		_			300		9	Lou	niu	305	пец	тАт	PIO	ASI			
11	4	CTG	GAA	CTC	CAG	GGA	TCA	GTG	CCC	ጥርጥ	GCT	CCC	CTC	СПС	220	310	AGC	1056
11	5	Leu	Glu	Leu	Gln	Gly	Ser	Val	Pro	Ser	Δla	Dro	Lau	LOU	AAC	Dha	Ser	1056
11	6				315	-				320		110	DСu		325		ser	
11	7	CCT	GGG	AAT	CTG	TCT	GTG	GAC	CCC	TAT	ĀТG	GAG	ΔΤΔ	САТ	GCC	աաա	GTG	1104
11	8	Pro	G1 y	Asn	Leu	Ser	Va1	Asp	Pro	Tvr	Met	G111	Tlo	) Acn	λla	Dho	Val	1104
11:	9			330					335	-1-		Olu	110	340	Ата	Pile	Val	
12	) .	CTC	CTG	CCC	AGC	TCC	AGC	AAG	GAG	ССТ	GTC	ттс	CGG	ርጥሮ	ΔСТ	GTC	GCC	1150
12		Leu	Leu	Pro	Ser	Ser	Ser	Lys	Glu	Pro	Val	Phe	Ara	Leu	Ser	Val	Ala	1152
122			343					350					355					
123		ACT	AAT	GTG	TCC	GCC	ACC	TTG	ACC	TTC	AAT	ACC	AGC	AAG	АТС	Δርጥ	GGG	1200
124		Thr	Asn	Val	Ser	Ala	Thr	Leu	Thr	Phe	Asn	Thr	Ser	Lvs	Tle	Thr	Glv	1200
125		300					365					370					375	
. 126		TTC	CTG	AAG	CCA	GGA	AAG	GTA	AAA	GTG	GAA	CTG	AAA	GAA	TCC	AAA	CTT	1248
127		Phe	Leu	Lys	Pro	G1y	Lys	Va1	Lys	Val	Glu	Leu	Lys	Glu	Ser	Lvs	Val	1240
128						380					385					390		
129		GGA	CTA	TTC	AAT	GCA	GAG	CTG	TTG	GAA	GCG	CTC	CTC	AAC	TAT	ТΔС	ATC	1296
130		GLY	Leu	Phe	Asn	Ala	Glu	Leu	Leu	Glu	Ala	Leu	Leu	Asn	Tyr	Tyr	Ile	1270
131					395					400					405			
132		CTT	AAC	ACC	TTC	TAC	CCC	AAG	TTC	AAT	GAT	AAG	TTG	GCC	GAA	GGC	TTC	1344
133		Leu	Asn	Thr	Phe	Tyr	Pro	Lys	Phe	Asn	Asp	Lys	Leu	Ala	Glu	Gly	Phe	
134				4 I U					415					420				
135		CCC	CTT	CCT	CTG	CTG	AAG	CGT	GTT	CAG	CTC .	TAC	GAC	CTT	GGG	CTG	CAG	1392
136		PIO	Leu	Pro	Leu	Leu	Lys	Arg	Val	Gln	Leu	Tyr	Asp	Leu	Gly	Leu	Gln	<b></b>
137			423					430					435					
138		ATC	CAT	AAG	GAC	TTC	CTG	TTC	TTG	GGT	GCC	AAT	GTC	CAA	TAC	ATG	AGA	1440
139 140		TIE	HIS	ьys	Asp	Pne	Leu	Phe	Leu	G1y	Ala	Asn	Val	G1n	Tyr	Met	Arg	
T40		440					445					450					455	

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DATE: 01/28/2002 TIME: 11:40:03

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141	GT	Т															1443
142	Va																1443
144 (2	) INF	ORMA	TION	FOR	SEQ	ID	NO:	2:									
145	(i				HARA											•	
146		(	A) L	ENGT	H`: 4	81 a	mino	aci	ds								
147		(	В) Т	YPE:	ami	no a	cid										
148		(	D) T	OPOL	OGY:	lin	ear										
149					YPE:	pro	tein										
150	(ix		ATUR						•								
151		(	A) N	AME/	KEY:	mis	c_fe	atur	е								
152		()	D) 0'	THER	INF	ORMA	TION	: "r	LBP"								
153 154	(XI	) SE	QUEN	CE D	ESCR:	IPTI	ON:	SEQ :	ID NO	0: 2	:						
155	ме -25	C GI	у АТ	a Lei	ı Ala	a Ar	g Al	a Lei	ı Pro	Se:	r Il	e Le	ı Let	ı Ala	a Lei	ı Leu	
156	2.	,				- 21	J				- 1 '	5				1 0	
157	ье	1 111.	L Se.	r Tni	r Pro	O GI	u Ala	a Le	ı Gly	y Ala	Ası	n Pro	o G13	Le	ı Va]	L Ala	
158						,				_	L				5		
159	****	, 110	- 1113 1(	l waf	у гу	s GT	y re	1 G11	ГАЛ	r Ala	a Ala	a Gli			/ Let	Leu	
160	Ala	Lei			· G1v	1 T 01	1 T 01	15		. m1	. <del>.</del>	_	20				
161		25	5		. 010	י דוכו	3(	J Y WI	, TTE	e Thi				Phe	e Thr	G1y	
162	Asp			ı Ile	Pro	His			λικο	r (2) v	7 7 ma	35	) 	ъ.		Ser	
163	40	)	-	,		45	;	. 013	AIG	GIZ	, ALG		GIU	Pne	HIS		
164	Leu	Asr	Ile	His	Ser			ı Len	Len	ніс	יכ נפטי	, ^ λ1∋	T 011	7 200	. D	55 Val	
165					60	,				65	,				7.0		
166	Pro	Gly	Gln	G1y	Leu	Ser	Leu	Ser	Ile	Ser	Asr	Ser	Ser	T10	/ U	Val	
167				/ 3					80					85			
168	G1n	Gly	Arg	Trp	Lys	Va1	Arg	Lys	Ser	Phe	Phe	LVS	Leu	G1n	G1v	Ser	
169			90					95					100				
170	Phe	Asp	Val	Ser	Va1	Lys	Gly	Ile	Ser	Ile	Ser	Va1	Asn	Leu	Leu	Leu	
171		103					TTO					115					
172	GLY	Ser	Glu	Ser	Ser	Gly	Arg	Pro	Thr	Val	Thr	Ala	Ser	Ser	Cys-	Ser	
173 174	120					125					130					125	
175	ser	ASP	ııe	АТа	Asp	Val	Glu	Val	Asp	Met	Ser	Gly	Asp	Leu	Gly	${\tt Trp}$	
176					140					145					150		
177	Dea	Бец	ASII	155	Pne	HIS	Asn	Gln	He	Glu	Ser	Lys	Phe	G1n	Lys	Val	
178	Leu	Glu	Ser		T10	Cvc	C1.11	Mo+	160	a1	_	~		165			
179		u	170	n į g	116	Cys	GIU	Met 175	тте	GIN	ьys	Ser		Ser	Ser	Asp	
180	Leu	G1n		Tvr	Leu	G1n	Thr	Leu	Dro	Va 1	шьъ	m1	180	-1.	_	_	
181		185		_1 -		0111	190	пси	110	Val	1111	195	GIU	тте	Asp	Ser	
182	Phe	Ala	Asp	I1e	Asp	Tvr		Leu	Va 1	G111	Δla	TAO	A ra	<b>λ</b> Ις	mh	.1.	
183	200		-			205		Leu	· u i	Gru	210	PIO	AIG	Ата	Thr		
184	G1n	Met	Leu	Glu	Val	Met	Phe	Lys	Glv	G111	Tle	Phe	Hie	Δνα	N c n	215 His	
185					220					225					230		
186	Arg	Ser	Pro	Val	Thr	Leu	Leu	A1a	Ala	Va1	Met	Ser	Leu	Pro	G111	Glu	•
187				233					240					245			
188	His	Asn	Lys	Met	Va1	Tyr	Phe	Ala	Ile	Ser	Asp	Tyr	Va1	Phe	Asn	Thr	
189			230					255					260				
190	Ala	ser	Ĺeu	Va1	$\mathtt{Tyr}$	His	Glu	Glu	Gly	Tyr	Leu	Asn	Phe	Ser	Ile	Thr	



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191		_	265			t		270					275					
. 192		Asp	GLu	Met	Ile	Pro			Ser	Asn	Ile	Arg	Leu	Thi	Thi	r Lys	Ser	
193		280					285					290					295	
194		Phe	e Arg	Pro	Phe	Val	Pro	Arg	Leu	Ala	Arg	Leu	Tyr	Pro	Ası	n Met	Asn	
195						300					305					310		
196		Leu	ı Glu	Leu	Gln	${ t Gly}$	Ser	Val	Pro	Ser	Ala	Pro	Leu	Leu	Ası	n Phe	Ser	
197					315					320					325	5		
198		Pro	Gly	Asn	Leu	Ser	Val	Asp	Pro	Tyr	Met	Glu	Ile	Asp	Ala	a Phe	Val	•
199				330					335					340	1			
200		Leu	Leu	Pro	Ser	Ser	Ser	Lys	Glu	Pro	Val	Phe	Arq	Leu	Ser	. Val	Ala	•
201			345					350					355					
202		Thr	Asn	Val	Ser	Ala	Thr	Leu	Thr	Phe	Asn	Thr	Ser	Lys	Ile	Thr	Gly	
203		360	1				365					370		-			375	
204		Phe	Leu	Lys	Pro	Gly	Lys	Val	Lys	Val	Glu	Leu	Lvs	Glu	Ser	Lvs		
205						380					385		_			390		
206		Gly	Leu	Phe	Asn	Ala	Glu	Leu	Leu	Glu	Ala	Leu	Leu	Asn	Tvr			
207					395					400					405	_	-10	
208		Leu	Asn	Thr	Phe	Tyr	Pro	Lys	Phe	Asn	Asp	Lvs	Len	Ala			Phe	
209				410		-		-	415			-1-		420		. 017	1 110	
210		Pro	Leu	Pro	Leu	Leu	Lys	Arq	Val	Gln	Leu	Tvr	Asp			T.e.ii	Gln	
211			425				-	430				-1-	435	LCu	013	БСи	OIII	,
212		Ile	His	Lys	Asp	Phe	Leu	Phe	Leu	Glv	Ala	Asn		Gln	Туг	Met	Δrα	
213		440		-	-		445			1		450	,	01	-1-	1100		
214																		
216	216 (2) INFORMATION FOR SEQ ID NO: 3:																	
217																		
218																		
219						ucle									•			
220						DNES			le.									
221						Y: 1												
W> 222		(ii)						_										
223		(ix)																
224						Y: C	DS											
225						N: 1		1										
226		(ix)											•					
227		•	(A)	NAM	E/KE	Y: m	isc	feat	ure									
228						NFOR				P25"								
229		(xi)																
230		GCC	AAC	CCC	GGC	TTG	GTC	GCC	AGG	ATC.	ACC	GAC	ΔAG	CCA	СТС	CAG	ጥለጥ	48
231		Ala	Asn	Pro	Glv	Leu '	Val	Ala	Ara	Tle	Thr	Agn	T.172	Glv	LOU	Gln	TAI	40
232		1			1	5			5		10	P	БуЗ	Gry	шец	15	ıyı	
233		GCG	GCC	CAG	GAG	GGG	СТА	TTG	GCT	СТС		ΔСТ	GNG	CTC	СТС	700	A TIC	0.6
234		Ala	Ala	Gln	Glu	Glv	Len	Leu	Ala	Len	Gln	Ser	Glu	Len	Leu	Ara	TIA	96
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236		ACG	CTG	ССТ		TTC :	ACC :	GGG	GAC		AGG	ልጥሮ	CCC	CAC	CTTC	ccc	CCm	7 4 4
237		Thr	Leu	Pro	Asp	Phe '	Thr	Glv	Asn	Len	Δra	716 T16	Dra	LHC	Ma 1	G1	Arc	144
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240		Glv	Arg	Tyr	Glu	Phe I	His :	Ser	Leu	Agn	Tle	Hie	Sar	CAG	GAG Glu	Len	CIT	192
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/994,185

DATE: 01/28/2002 TIME: 11:40:04

Input Set : N:\Crf3\RULE60\09994185.raw
Output Set: N:\CRF3\01282002\1994185.raw

L:20 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:21 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:40 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1 L:222 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=3